

SYSTEM AND METHOD FOR FILTERING CONTAMINATES FROM MAIL IN A SORTING ROOM

ABSTRACT OF THE DISCLOSURE

A system for removing contaminants from the air in a mail sorting room includes a vacuum unit and a filter, both of which may be located within this room. The vacuum unit creates a downwardly directed laminar flow of air which expels airborne particulates (e.g., anthrax spores) from the room. Prior to being expelled, the air is passed through a multi-stage filtration unit which includes a HEPA filter and optionally a carbon V.O.C. filter for removing chemical agents. The mail sorting room preferably has a modular construction with removable walls, a ceiling, and a floor. The walls may be transparent or opaque. An air lock room may be attached to the mail sorting room to prevent air from the sorting room from accidentally escaping. A cleaning device may be included in the sorting room for individually cleaning the mail. This cleaning device may be connected to a conveyor which automatically advances the mail for cleaning. The present invention is especially well suited to preventing mail workers from being infected from cross-contaminated letters.